SIEMENS

ARCADIS Avantic

SP

Installation and Startup

Option

Area Dose Measurement

© Siemens AG 2005
The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

Print No.: SPR2-330.814.01.01.02
Replaces: n.a.

English
Doc. Gen. Date: 02.05

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

Table of Contents 3

1 Installation and Setting Instructions 4

General information 4
Safety instructions. 4
Additional information 4
Required parts 4
Required measuring and auxiliary equipment. 4
Required tools. 4
With the laser light localizer 5
Installing the measuring chambers 5
Programming and calibrating the area dose product measuring device 6
Programming 6
Checking the programmed value (standard resolution/pediatrics) 7
Final work steps 8

2 Changes to Previous Version 9

General information

Safety instructions

NOTICE

To avoid light to severe, possibly fatal, injuries and material damage:

- ➪ **The product-specific safety information in the system manual as well as the safety information in the ARTD, part 2, must be observed.**
- ➪ **After all work has been completed and all covers have been attached, perform the protective conductor test according to ARTD-002.731.17. The protective conductor resistance may not exceed 0.2 Ohms.**
- ➪ **Checks and settings that need to be performed under X-ray radiation are identified by the radiation symbol ☢ . Radiation protective clothing must be worn while performing procedures marked with this symbol.**

Additional information

These instructions only apply to the retrofitting of the dose meter to an ARCADIS Avantic system.

Required parts

• DAP meter (including 4 threaded bolts)	10 04 76 54

Required measuring and auxiliary equipment

• Dose meter	e.g., PTW-Diados	97 17 612 Y0388
• Crosshair		96 60 051 RE999

Required tools

- Tool case (see SPC catalog)

With the laser light localizer

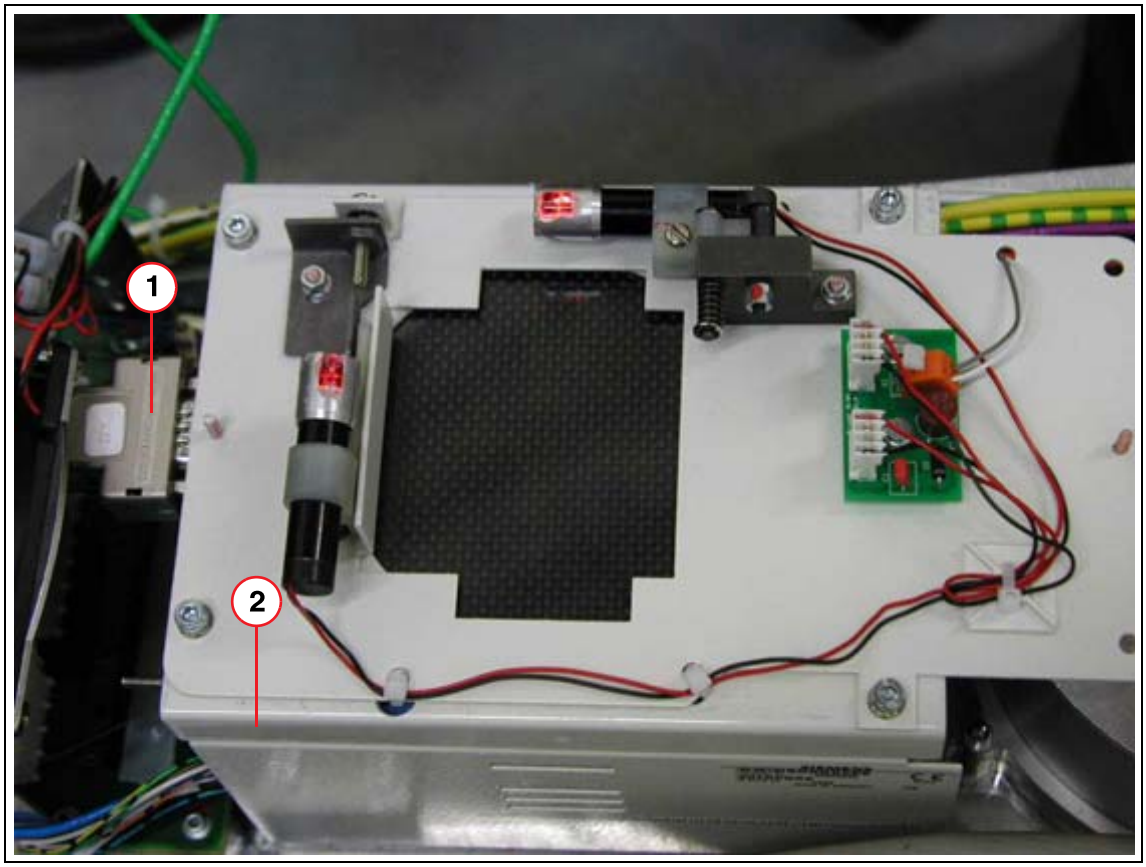

Fig. 1: Measuring chamber connection

Remove the laser light localizer prior to the installation procedure. After installation is complete, remount the localizer, check it, and adjust it as needed according to the "Laser Light Localizer" setting instructions.

Installing the measuring chambers

- Disconnect the ARCADIS power plug.
- Unscrew the POWERPHOS cover. Carefully separate the adhesive joints on the long sides of the cover.
- Remove the measuring chamber connection (1/Fig. 1 / p. 5) from the cable tie.
- Place the dose measuring chamber on the POWERPHOS according to (2/Fig. 1 / p. 5).
- Use the included threaded bolts and screws to secure the dose measuring chamber to the POWERPHOS.
- Connect the measuring chamber connection (1/Fig. 1 / p. 5) to the measuring chamber.
- Use the switch on the measuring chamber to select the desired resolution (see the inscription on the measuring chamber and the measuring chamber operating instructions).
- Reattach the POWERPHOS cover.

Programming and calibrating the area dose product measuring device

NOTE

This calibration operation is used to adjust the area dose product measuring device to the ARCADIS Avantic system display.

Programming

- Start and log on to the service program.
- <Click **Main System**> and <**Next**>.
- Click <**Options**> under "Configuration".
- Click <**Yes**> under "Diamentor Existing".
- Read off the "**TW**" factor from the identification tag on the diamentor chamber and enter it in the "Constant" field.
- Select "**"0.1 cGy cm*cm/pulse**" for the standard resolution in the "Resolution" field (see (1/Fig. 2 / p. 7)).
- For pediatric applications select

  “0.01 cGy cm*cm/pulse” under "Resolution".
- Enter the test value (TW) 500 under "Constant" (see (2/Fig. 2 / p. 7)) for standard and 5000 for pediatrics.
- Press the Return key on the keyboard and click <**Save**>.

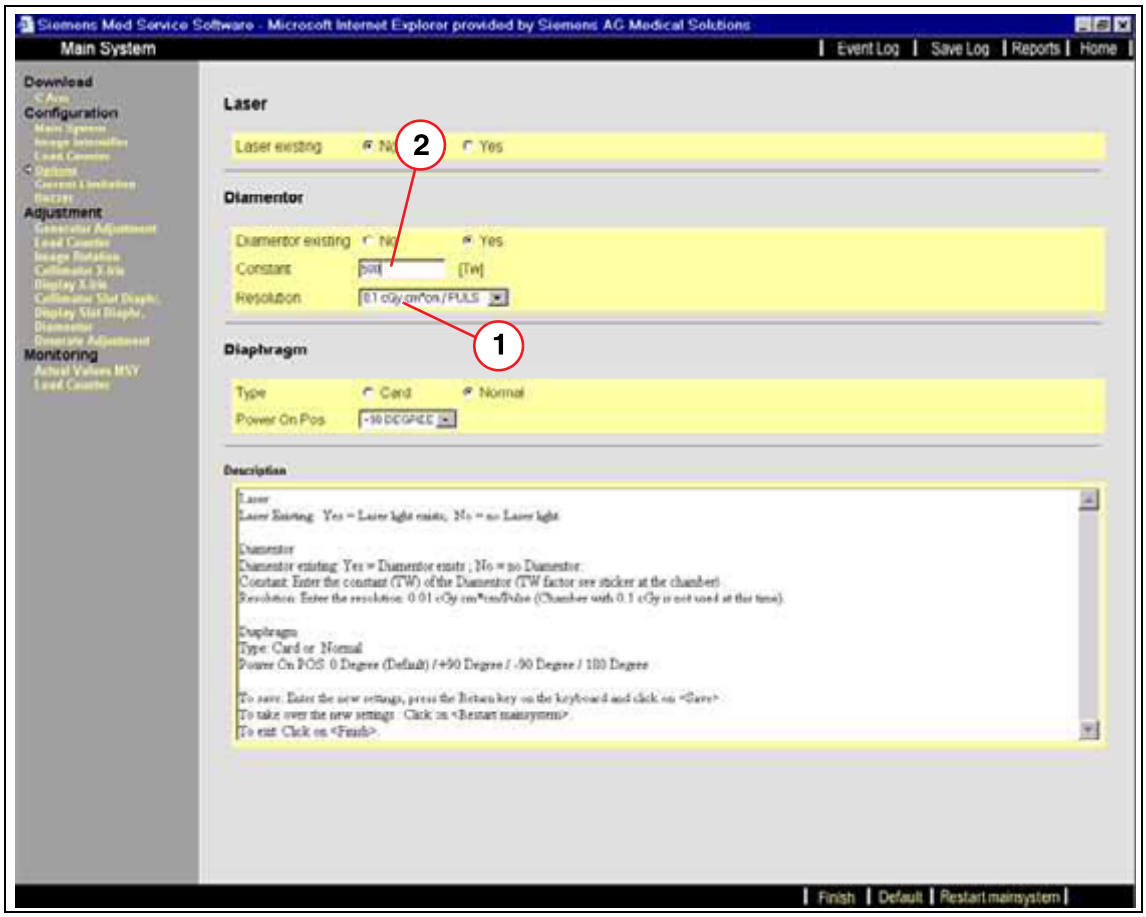

*Fig. 2: main_system_*

Checking the programmed value (standard resolution/pediatrics)

NOTE

After completing all work, ensure that the value entered under "Constant" and "Resolution" corresponds with the application desired by the user.

“0.01cGy cm*cm/pulse” is only to be selected for pediatrics.

- Click <**Diamentor**> and ">" under "Adjustment" for the next page in the Service menu.
- Click "**Click Here**" in the service view and check the accuracy of the diamentor according to the instructions on the system.

Final work steps

- Click <**Backup & Restore**> in the "Home menu", select "Backup" under "Command", and select "(-R-) CD-R" under "Drives".
- Use <**Go**> to start the burning operation for the following packages: SW-Settings.., AspiaSettings, Security-Settings, ExamSet, MainSystem.
- Perform partial acceptance tests in accordance with country-specific regulations.
- Check the calibration of the laser light localizer if applicable.

Changes to Previous Version 9

N/A; first version

10 Changes to Previous Version